



ICF international / Laboratory Data Consultants

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MEMORANDUM

TO: Chris Lichens, Remedial Project Manager
Site Cleanup Section 4, SFD-7-4

THROUGH: Rose Fong, ESAT Task Order Manager (TOM) *RF*
Quality Assurance (QA) Program, MTS-3

FROM: Doug Lindelof, Data Review Task Manager *DL*
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-06-041
Technical Direction Form No.: 00105077 Amendment 3

DATE: September 14, 2007

SUBJECT: Review of Analytical Data, Tier 3

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Omega Chem OU2
Site Account No.:	09 BC LA02
CERCLIS ID NO.:	CAD042245001
Case No.:	36520
SDG No.:	Y3CN1
Laboratory:	Shealy Environmental Services, Inc. (SHEALY)
Analysis:	1,4-Dioxane, 1,2-Dibromoethane , and 1,2-Dibromo-3-chloropropane (Trace SIM Volatiles)
Samples:	20 Ground Water Samples (see Case Summary)
Collection Date:	July 18, 19, 20, and 23, 2007
Reviewer:	Santiago Lee, ESAT/Laboratory Data Consultants

This report has been reviewed by the EPA TOM for the ESAT contract, whose signature appears above.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

Attachment

cc: Carol Beard, CLP PO USEPA Region 8
Steve Remaley, CLP PO USEPA Region 9

CLP PO: Attention Action

SAMPLING ISSUES: Yes No

00105077-8326/36520/Y3CN1-VS

Data Validation Report

Case No.: 36520
SDG No.: Y3CN1
Site: Omega Chem OU2
Laboratory: Shealy Environmental Services, Inc.
Reviewer: Santiago Lee, ESAT/LDC
Date: September 14, 2007

I. CASE SUMMARY

Sample Information

Samples: Y3CN1 through Y3CN9 and Y3CP0 through Y3CQ0
Concentration and Matrix: Low/Medium Concentration Water
Analysis: 1,4-Dioxane, 1,2-Dibromoethane , and 1,2-Dibromo-3-chloropropane by Trace Volatiles Selective Ion Monitoring (SIM)
SOW: SOM01.1 and Modification Reference No. 1363.2
Collection Date: July 18, 19, 20, and 23, 2007
Sample Receipt Date: July 19, 20, 21, and 24, 2007
Extraction Date: Not Applicable
Analysis Date: July 25, 26, and 31, 2007

Field QC

Field Blanks (FB): Y3CN5, Y3CP1, Y3CP6, and Y3CQ2 (in SDG Y3CQ1)
Equipment Blanks (EB): Not Provided
Trip Blank (TB): Not Provided
Background Samples (BG): Not Provided
Field Duplicates (D1): Y3CP9 and Y3CQ0

Laboratory QC

Method Blanks & Associated Samples:
VBLK25: Y3CN1 through Y2CN9, Y3CP0, and Y3CP1
VBLK26: Y3CN4RE, Y3CP2 through Y3CQ0 and storage blank VHBLK32
VBLK31: storage blank VHBLK32RE

Tables

- 1A: Analytical Results with Qualifications
- 1B: Data Qualifier Definitions for Organic Data Review
- 2: Calibration Summary

CLP PO Action

1. Nondetected results for 1,4-dioxane in samples Y3CN5, Y3CN6, Y3CP0 through Y3CP4, and Y3CP6 through Y3CP9 are qualified as rejected (R) due to very low relative response factors (RRF <0.01) in initial and continuing calibrations (see Comment A).
2. The nondetected result for 1,4-dioxane in sample Y3CP8 is qualified as rejected (R) due to a very low deuterated monitoring compound (DMC) recovery (<20%; see Comment B).

CLP PO Attention

1. Detected results for 1,4-dioxane in samples Y3CN1 through Y3CN4, Y3CN7 through Y3CN9, Y3CP5, and Y3CQ0 are qualified as estimated (J) due to very low RRFs (<0.01) in initial and continuing calibrations (see Comment D).
2. Detected results for 1,4-dioxane in samples Y3CN1, Y3CN5, Y3CN6, Y3CP0, Y3CP5, Y3CP9, and Y3CQ0 are qualified as nondetected and estimated (U,J) due to method blank contamination (see Comment E).
3. Detected results for 1,4-dioxane in Y3CN2 and Y3CN4 are qualified as estimated (J) due to high DMC recoveries (see Comment F).
4. Detected results for 1,4-dioxane in samples Y3CN2 and Y3CN4 are qualified as estimated (J) due to concentrations exceeding calibration range (see Comment G).

Sampling Issues

The sampler signature is missing on traffic report & chain of custody records (TR/COCs) for samples collected on 07/18/07 through 07/20/07 (see attached TR/COCs, pp. 5 through 7 in data package).

Additional Comments

The SDG Narrative stated that "Sample Y3CN4 was re-analyzed due to the possibility of carryover in the first analysis." Results for Y3CN4 are reported in Table 1A since 1,4-Dioxane results for Y3CN4 (120 ug/L) and Y3CN4RE (110 ug/L) are very similar.

The laboratory performed manual integrations on calibrations and samples due to incorrect auto integration. Manual integrations were reviewed and found to be satisfactory and in compliance with proper integration techniques.

This report was prepared in accordance with the following documents:

- ESAT Region 9 Standard Operating Procedure 901, *Guidelines for Data Review of Contract Laboratory Program Analytical Services Volatile and Semivolatile Data Packages*;
- USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration, SOM01.1, May 2005; and
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2005.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

<u>Parameter</u>	<u>Acceptable</u>	<u>Comment</u>
1. Holding Time/Preservation	Yes	
2. GC/MS Tune/GC Performance	Yes	
3. Initial Calibration	No	A, D
4. Continuing Calibration	No	A, D
5. Laboratory Blanks	No	E
6. Field Blanks	Yes	
7. Deuterated Monitoring Compounds	No	B, F
8. Matrix Spike/Matrix Spike Duplicates	N/A	
9. Laboratory Control Samples/Duplicates	N/A	
10. Internal Standards	Yes	
11. Compound Identification	Yes	
12. Compound Quantitation	No	C, G
13. System Performance	Yes	
14. Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. Nondetected results for the following analyte are qualified as rejected due to very low RRFs in initial and continuing calibrations and are flagged "R" in Table 1A.

- 1,4-Dioxane in samples Y3CN5, Y3CN6, Y3CP0 through Y3CP4, and Y3CP6 through Y3CP9 and storage blanks VHBLK32 and VHBLK32RE

RRFs below 0.01 were reported for 1,4-dioxane in initial and continuing calibrations (see Table 2). Since results are nondetected, false negatives may exist.

DMC 1,4-dioxane-d8 also had RRFs below 0.01 in initial and continuing calibrations (see Table 2).

The RRF evaluates instrument sensitivity and is used in the quantitation of target analytes.

B. The result for the following analyte is qualified as rejected due to a very low DMC recovery (<20%) and is flagged "R" in Table 1A.

- {1,4-Dioxane-d8}
- 1,4-Dioxane in sample Y3CP8

A recovery of 11% was reported for the DMC 1,4-dioxane-d8 in sample Y3CP8, which is well below the QC limit of 50-150%. Since the result is nondetected, false negative may exist. Sample Y3CP8 was not reanalyzed.

Surrogates (e.g., deuterated monitoring compounds (DMCs)) are organic compounds which are similar to the target analytes in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. All samples are spiked with DMCs prior to purging. DMCs provide information about both the laboratory performance on individual samples and the possible effects of the sample matrix on the analytical results.

- C. The following results, denoted with an "L" qualifier, are estimated and flagged "J" in Table 1A.

- All detected results below the contract required quantitation limits

Results below the contract required quantitation limits (CRQLs) are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection.

- D. Detected results for the following analyte are qualified as estimated due to very low RRFs in initial and continuing calibrations and are flagged "J" in Table 1A.

- 1,4-Dioxane in samples Y3CN2 through Y3CN4, Y3CN7 through Y3CN9, and method blanks VBLK25, VBLK26, and VBLK31

RRFs below 0.01 were reported for 1,4-dioxane in initial and continuing calibrations (see Table 2). Detected results may be biased low.

DMC 1,4-dioxane-d8 also had RRFs below 0.01 in initial and continuing calibrations (see Table 2).

- E. The following results are qualified as nondetected and estimated due to method blank contamination and are flagged "U,J" in Table 1A.

- 1,4-Dioxane in samples Y3CN1, Y3CN5, Y3CN6, Y3CP0, Y3CP5, Y3CP9, and Y3CQ0 and storage blanks VHBLK32 and VHBLK32RE

1,4-Dioxane was found in method blanks VBLK25, VBLK26, and VBLK31 (see Table 1A for concentrations). Results for the samples listed above are considered nondetected and estimated (U,J) and quantitation limits have been raised according to blank qualification rules presented below.

No positive results are reported unless the concentration of the compound in the sample exceeds 5 times the amount in any associated blank. If the sample result is greater than the CRQL, the quantitation limit is raised to the sample result and reported as nondetected. If the sample result is less than the CRQL, the result is reported as nondetected at the CRQL.

A laboratory method blank is laboratory reagent water or baked sand analyzed with all reagents, deuterated monitoring compounds, and internal standards and carried

through the same sample preparation and analytical procedures as the field samples. The laboratory method blank is used to determine the level of contamination introduced by the laboratory during analysis.

- F. Results for the following analyte are qualified as estimated due to DMC recoveries above the QC limit and are flagged "J" in Table 1A.

{1,4-Dioxane-d8}

- 1,4-Dioxane in samples Y3CN2 and Y3CN4

DMC recoveries above the QC limit are shown below.

<u>Sample</u>	<u>DMC</u>	<u>% Recovery</u>	<u>QC Limits</u>
Y3CN2	1,4-Dioxane-d8	157	50-150
Y3CN4	1,4-Dioxane-d8	286	50-150
Y3CP1	1,4-Dioxane-d8	153	50-150
Y3CN4RE	1,4-Dioxane-d8	228	50-150
VHBLK32	1,4-Dioxane-d8	155	50-150

Qualified results may be biased high. Recoveries for DMC 1,4-dioxane-d8 in sample Y3CP1 and storage blank VHBLK32 exceeded the QC limit but associated results were not qualified because they were nondetects. The samples were not reanalyzed.

- G. Detected results for the following analyte are qualified as estimated due to concentrations exceeding calibration range and are flagged "J" in Table 1A.

- 1,4-Dioxane in samples Y3CN2 and Y3CN4

Concentrations of 1,4-dioxane in undiluted analyses of samples Y3CN2 and Y3CN4 were 180 ug/L and 120 ug/L, respectively. These values exceed the 2.0-80 ug/L calibration range. The laboratory did not analyze samples Y3CN2 and Y3CN4 at dilutions due to insufficient volume.

Results reported in Table 1A for 1,4-dioxane in samples Y3CN2 and Y3CN4 are from the undiluted analysis. These concentrations are considered to be qualitatively acceptable but quantitatively questionable and should be considered as minimum concentrations at which 1,4-dioxane are present in the samples.

Case No. : 36520
 Site : Omega Chem OU2
 Lab : Shealy Environmental Services, Inc.
 Reviewer : Santiago Lee, ESAT/LDC
 Date : 09/14/07

ANALYTICAL RESULTS
Table 1A

SDG No. : Y3CN1
 Volatiles SIM
 Concentration in ug/L

QUALIFIED DATA
Analysis Type :
Trace Level Water Samples
for Volatiles SIM

Station Location :	Y3CN1	Y3CN2	Y3CN3	Y3CN4	Y3CN5	Y3CN6
Sample ID :	Y3CN1	Y3CN2	Y3CN3	Y3CN4	Y3CN5	Y3CN6
Collection Date :	7/18/2007	7/18/2007	7/18/2007	7/18/2007	7/18/2007	7/19/2007
Dilution Factor :	1.0	1.0	1.0	1.0	1.0	1.0
Volatiles SIM	Result	Val	Com	Result	Val	Com
1,4-Dioxane	6.2U	J	DE	180	J	DFG
1,2-Dibromoethane	0.050U			0.050U		
1,2-Dibromo-3-chloropropane	0.050U			0.050U		

Station Location :	Y3CN7	Y3CN8	Y3CN9	Y3CP0	Y3CP1	Y3CP2
Sample ID :	Y3CN7	Y3CN8	Y3CN9	Y3CP0	Y3CP1	Y3CP2
Collection Date :	7/19/2007	7/19/2007	7/19/2007	7/19/2007	7/19/2007	7/20/2007
Dilution Factor :	1.0	1.0	1.0	1.0	1.0	1.0
Volatiles SIM	Result	Val	Com	Result	Val	Com
1,4-Dioxane	7.6	J	D	14	J	D
1,2-Dibromoethane	0.050U			0.050U		
1,2-Dibromo-3-chloropropane	0.050U			0.050U		

Station Location :	Y3CP3	Y3CP4	Y3CP5	Y3CP6	Y3CP7	Y3CP8
Sample ID :	Y3CP3	Y3CP4	Y3CP5	Y3CP6	Y3CP7	Y3CP8
Collection Date :	7/20/2007	7/20/2007	7/20/2007	7/20/2007	7/23/2007	7/23/2007
Dilution Factor :	1.0	1.0	1.0	1.0	1.0	1.0
Volatiles SIM	Result	Val	Com	Result	Val	Com
1,4-Dioxane	2.0U	R	A	3.0U	J	DE
1,2-Dibromoethane	0.050U			0.050U		
1,2-Dibromo-3-chloropropane	0.050U			0.050U		

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit

N/A - Not Applicable

NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
 FB - Field Blank, EB - Equipment Blank,
 TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS

Case No. : 36520

SDG No. : Y3CN1

Table 1A

Site : Omega Chem OU2

Lab : Shealy Environmental Services, Inc.

Reviewer : Santiago Lee, ESAT/LDC

Date : 09/14/07

QUALIFIED DATA **Analysis Type :** Trace Level Water Samples
Concentration in ug/L for Volatiles SIM

Station Location :	Y3CP9	Y3CQ0	Method Blank	Method Blank	Method Blank	Storage Blank
Sample ID :	Y3CP9	Y3CQ0	VBLK25	VBLK26	VBLK31	VHBLK32
Collection Date :	7/23/2007	7/23/2007	D1	D1		
Dilution Factor :	1.0	1.0		1.0		1.0
Volatiles SIM	Result	Val	Com	Result	Val	Com
1,4-Dioxane	2.0U	R	AE	2.9U	J	DE
1,2-Dibromoethane	0.050U			0.050U		0.050U
1,2-Dibromo-3-chloropropane	0.050U			0.050U		0.050U

Station Location :	Storage Blank	CRQL																	
Sample ID :	VHBLK32RE																		
Collection Date :																			
Dilution Factor :	1.0																		
Volatiles SIM	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result
1,4-Dioxane	2.0U	R	AE	2.0															
1,2-Dibromoethane	0.050U			0.050															
1,2-Dibromo-3-chloropropane	0.050U			0.050															

Val - Validity. Refer to Data Qualifiers in Table 1B.

Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.

CRQL - Contract Required Quantitation Limit

N/A - Not Applicable

NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs

FB - Field Blank, EB - Equipment Blank,

TB - Trip Blank, BG - Background Sample

TABLE 1B
DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," January 2005.

- U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.
- L Indicates results which fall below the Contract Required Quantitation Limit. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.
- J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).
- NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.
- R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

Table 2
Calibration Summary

Case No.: 36520
SDG No.: Y3CN1
Site: Omega Chem OU2
Laboratory: Shealy Environmental Services, Inc.
Reviewer: Santiago Lee, ESAT/LDC
Date: September 14, 2007

RELATIVE RESPONSE FACTORS

	<u>RRF</u>	<u>RRF</u>	<u>RRF</u>	<u>RRF</u>	<u>RRF</u>
Analysis date:	07/24/07	07/25/07	07/26/07	07/26/07	07/26/07
Analysis time:	17:25-	13:36	00:36	06:57	17:14
GC/MS I.D.:	MSD8	MSD8	MSD8	MSD8	MSD8
<u>Analyte</u>	<u>Init.</u>	<u>Cont.</u>	<u>Cont.</u>	<u>Cont.</u>	<u>Cont.</u>
1,4-Dioxane	0.0013	0.0015	0.0018	0.0018	0.0024
1,4-Dioxane-d8	0.0013	0.0015	0.0018	0.0015	0.0021
	<u>RRF</u>	<u>RRF</u>			
Analysis date:	07/31/07	07/31/07			
Analysis time:	09:00	11:34			
GC/MS I.D.:	MSD8	MSD8			
<u>Analyte</u>	<u>Cont.</u>	<u>Cont.</u>			
1,4-Dioxane	0.0013	0.0021			
1,4-Dioxane-d8	0.0012	0.0020			



USEPA Organic Traffic Record & Chain of Custody Program

Case No: 36520
DAS No:
SDG No: Y3CL1 Y3CN1 L

Date Shipped:	Carrier Name:	Chain of Custody Record	Sampler Signature:
7/18/2007	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
799177129103, 7923802366	Shealy Environmental	1 <i>[Signature]</i> 7-18-07 1400	2
Shipped to:	106 Vantage Point Drive Cayce SC 29033 (803) 791-9700	3	
		4	

ORGANIC SAMPLE No.	MATRIX SAMPLER	CONC TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	Unit Price:
Y3CN0	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	255 (Ice Only), 256 (Ice Only), 257 (Ice Only), 258 (Ice Only), 259 (HCl), 260 (HCl), 261 (HCl), 262 (HCl), 263 (HCl), 264 (HCl), 265 (HCl), 266 (HCl), 267 (Ice Only), 268 (Ice Only), 269 (HCl), 270 (HCl), 271 (HCl), 272 (HCl) (6)	Y3CN0	S: 7/18/2007 8:25		
Y3CN1	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	273 (Ice Only), 274 (Ice Only), 275 (HCl), 276 (HCl), 277 (HCl), 278 (HCl) (6)	Y3CN1	S: 7/18/2007 9:15		
Y3CN2	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	279 (Ice Only), 280 (Ice Only), 281 (HCl), 282 (HCl), 283 (HCl), 284 (HCl) (6)	Y3CN2	S: 7/18/2007 10:10		
Y3CN3	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	285 (Ice Only), 286 (Ice Only), 287 (HCl), 288 (HCl), 289 (HCl), 290 (HCl) (6)	Y3CN3	S: 7/18/2007 11:15		
Y3CN4	Ground Water/ Robert Hernandez	M/G	SIM TVOA (21), SVOA (21)	291 (HCl), 292 (HCl), 293 (HCl), 294 (HCl) (4)	Y3CN4	S: 7/18/2007 12:12		
Y3CN5	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21)		Y3CN5	S: 7/18/2007 13:00		

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF Y3CL1-365
Jill Hernandez
Signature 07/23/07
Date

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: <i>Y3CLNO</i>	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt	Chain of Custody Seal Number:
Analysis Key: SIM TVOA = CLP TCL Volatiles (including SIM), SVOA = 1,4-Dioxane	Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G		5-31 4-6	N/A Shipment Iced? <i>Y</i>

TR Number: 9-373659945-071807-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA 20191-3400 Phone 703/264-9348 Fax 703/264-9222

LABORATORY COPY



**USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record**

Case No: 365520

DAS No:

Y3CN1

SDG No:

L

Date Shipped:	7/19/2007	Chain of Custody Record		Sampler Signature:
Carrier Name:	FedEx	Relinquished By	(Date / Time)	Received By
Airbill:	79029497320, 7991779246			(Date / Time)
Shipped to:	Shealy Environmental 106 Vantage Point Drive Cave SC 29033 (803) 791-9700			

ORGANIC SAMPLE No.	MATRIX SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	INORGANIC SAMPLE No.		FOR LAB USE ONLY Sample Condition On Receipt
						SAMPLE COLLECT DATE/TIME	Unit Price:	
Y3CN6	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	297 (Ice Only), 298 (Ice Only), 299 (HCL), 300 (HCL), 301 (HCL), 302 (HCL) (6) 303 (Ice Only), 304 (Ice Only), 305 (HCL), 306 (HCL), 307 (HCL), 308 (HCL) (6)	Y3CN6	S: 7/19/2007	8:30	06
Y3CN7	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	309 (Ice Only), 310 (Ice Only), 311 (HCL), 312 (HCL), 313 (HCL), 314 (HCL) (6)	Y3CN7	S: 7/19/2007	9:25	
Y3CN8	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	315 (Ice Only), 316 (Ice Only), 317 (HCL), 318 (HCL), 319 (HCL), 320 (HCL) (6)	Y3CN8	S: 7/19/2007	9:55	
Y3CN9	Ground Water/ Robert Hernandez	M/G	SIM TVOA (21), SVOA (21)	321 (Ice Only), 322 (Ice Only), 323 (HCL), 324 (HCL), 325 (HCL), 326 (HCL) (6)	Y3CN9	S: 7/19/2007	11:07	
Y3CP0	Ground Water/ Robert Hernandez	M/G	SIM TVOA (21), SVOA (21)	327 (HCL), 328 (HCL), 329 (HCL), 330 (HCL) (4)	Y3CP0	S: 7/19/2007	12:45	
Y3CP1	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21)		Y3CP1	S: 7/19/2007	13:00	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number: NA
Analysis Key: SIM TVOA = CLP TCL Volatiles (including SIM), SVOA = 1,4-Dioxane	Concentration: L = Low, M = Medium, H = High	Type/Designate: Composite = C, Grab = G 3-8, 4-4	Custody Seal Intact? <input checked="" type="checkbox"/> shipment iced? <input checked="" type="checkbox"/>

TR Number: 9-373659945-071907-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 200 Edmund Halley Dr., Reston, VA 20191-3400 Phone 703/264-9348 Fax 703/264-9422

LABORATORY COPY



**USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record**

Case No: 36520

DAS No:

SDG No: Y3CNI

L

Chain of Custody Record			
Date Shipped:	7/20/2007	Sampled By:	Signature: Received By
Carrier Name:	FedEx	(Date / Time)	(Date / Time)
Airbill:	791726191401	1	7-20-07 12:00
Shipped to:	Shealy Environmental 106 Vantage Point Drive Cayce SC 29033 (803) 791-9700	2	
		3	
		4	7-21-07 11:00

ORGANIC SAMPLE No.	MATRIX SAMPLER	CONC TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
Y3CP2	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	331 (Ice Only), 332 (Ice Only), 333 (HCL), 334 (HCL), 335 (HCL), 336 (HCL) (6), 337 (Ice Only), 338 (Ice Only), 339 (HCL), 340 (HCL), 341 (HCL), 342 (HCL) (6)	Y3CP2	S: 7/20/2007 7:25		
Y3CP3	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	343 (Ice Only), 344 (Ice Only), 345 (HCL), 346 (HCL), 347 (HCL), 348 (HCL) (6)	Y3CP4	S: 7/20/2007 9:05		
Y3CP4	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	349 (Ice Only), 350 (Ice Only), 351 (HCL), 352 (HCL), 353 (HCL), 354 (HCL) (6)	Y3CP5	S: 7/20/2007 10:20		
Y3CP5	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	361 (HCL), 362 (HCL), 363 (HCL), 364 (HCL) (4)	Y3CP6	S: 7/20/2007 11:00		
Y3CP6	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21)					

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4	Chain of Custody Seal Number: NJ A
Analysis Key: SIM TVOA = CLP TCL Volatiles (including SIM), SVOA = 1,4-Dioxane	Concentration: L = Low, M = Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Yes	Shipment ice? Yes

TR Number: 9-373659945-072007-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA 20191-3400 Phone 703/284-9348 Fax 703/284-9722

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